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INFORMATION DISCLO STATEMENT BY APPLICAN

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Sheet 1 of 3

Complete If Known				
Application Number	10/648,585			
Filing Date	August 25, 2003			
First Named Inventor	Amlan Datta			
Art Unit	1731			
Examiner Name	Queenie S. Dehghan			
Attorney Docket Number	129843.1102			

Examiner	Cite									Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initial	No.1	Number-Kind Code 2 (8 known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear								
/QSD/		US 3,321,414	05/23/1967	Vieli									
		US 4,292,206	09/29/1981	Barnes Jr. et al.									
		US 4,394,346	07/19/1983	Morooka									
		US 4,448,599 US 4,540,629	05/15/1984	Mackenzie et al.									
			09/10/1985	Sands et al.									
		US 4,769,189	09/06/1988	Douden									
		US 6,254,845 07/03/2001		Ohashi et al.									
V		US 6,444,162	09/03/2002	Anshits et al.									
/QSD/		US 2004/0262801 A1	12/30/2004	Hojaji et al.									

Examiner Initial	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Country or Patent Office	Pages, Columns, Lines, Where Relevant Passages or Relevant	т•
	,,,,	Country Code ³ Number ⁴ Kind Code ⁵ (4 known)]		Figures Appear	
		EP 0242872	04/22/1987	Europe		-
/QSD/		EP 0891954	04/14/2004	Europe		
		EP 0031778	04/10/2002	Europe		#
		EP 0999333	03/03/2004	Europe		+
/QSD/		EP 1172341	01/16/2002	Europe		
		DE 10062137	06/28/2001	Germany		_
		DE 3314796	10/25/1984	Germany		ユ
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Examiner		Date	01/03/3009
Signature	/Queenie Dehghan/	Considered	01/03/2008
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Sheet 2 of 3

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First Named Inventor	Amlan Datta			
Art Unit	1731			
Examiner Name	Queenie S. Dehghan			
Attorney Docket Number	129843.1102			

U. S. PATENT DOCUMENTS						
Examiner Initial	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures	
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		Country Code ³ Number ⁴ Kind Code ⁵ (# Innown)			Figures Appear	
/QSD/		GB 1062410	03/22/1967	United Kingdom		_1
1		GB 1515521	06/28/1978	United Kingdom		
		GB 2330138	04/14/1999	United Kingdom		
		GB 682432	11/12/1952	United Kingdom		
		GB 743866 GB 744070	01/25/1956 02/01/1956	United Kingdom		
				United Kingdom		
		GB 752345	07/11/1956	United Kingdom		
\/		GB 896910	05/23/1962	United Kingdom		
V		WO 98/03284	01/29/1998	WIPO		
/QSD/		WO 98/29353	07/09/1998	WIPO		
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Examiner Signature	/Queenie Dehghan/	Date Considered	01/03/2008
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Sheet 3 of 3

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First Named Inventor	Amlan Datta			
Art Unit	1731			
Examiner Name	Queenie S. Dehghan			
Attorney Docket Number	129843.1102			

		NON PATENT LITERATURE DOCUMENTS	T²
Examiner Initial*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
/QSD/		Sphere Services Inc. "Cenospheres – Hollow Ceramic Microspheres" website article located at: http://www.sphereservices.com/ceno.html (2 pgs.), dated 05/15/2007	
/QSD/		"Technology Education – Glass" by Encyclopedia Britannica (4 pgs.) website article located at: http://www.geocities.com/tech_ed_2000/industrial/manufacturing/glass/glass.htm?20 . dated 05/15/2007	
/QSD/		Digital Fire Corporation "Do You Need to Know About Eutectics to Make a Good Glaze?" (4 pgs.) website article located at: http://www.digitalfire.ab.ca/cermat/education/119.php?PHPSESSID=1e2d7f3f3a246983 94ecae57ed3b06d5 dated 07/14/2003	
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Substitute for form 1449/PTO				Application Number	10/648,585-Conf. #4088	
	VFORMATION	ini	SCI OSIIRE	Filing Date	August 25, 2003	
	TATEMENT (First Named Inventor	Amlan Datta	
) Milanikikeni	~u3 & 0°		Art Unit	1731	
	(Use as many sh	eets as	necessary)	Examiner Name	Q. S. Dehghari	
Sheel	ei . 1 of 1		1	Attorney Docket Number	129843-001102	

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), little of the anticle (when appropriate), title of the item (book, magazine, journal, serial, symposium, calalog, atc.), date, paga(s), volume-issue number(s), publisher, city and/or country where published.	ް		
/QSD/	1.5	Office Action mailed March 20, 2007, for U.S. Application No. 10/648,184, 6 pp.			
/QSD/		Office Action mailed May 30, 2007, for U.S. Application No. 10/787,394, 5 pp.			
/OSD/	2	Office Action mailed October 12, 2007, for U.S. Application No. 10/648,009, 5 pp.			
/QSD/	4	"Glass" Corning Glass Works; reprinted version of the Encyclopedia of Chemical Technology (Vol. 10) 2nd Ed.; 1955 (pgs. 542-543)			

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		01/03/2008			
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